

[ç<u>3]</u>

THEETER LETTE

[c6]

CLAIMS

[c1] 1. In a communication device, a method for reducing latency in a group communication network, the method comprising:

receiving a floor-control request from a user of the communication device who wishes to initiate a group call; and

transmitting the floor-control request on a reverse common channel of a wireless network to a controller.

- [c2] 2. The method of claim 1, wherein the receiving includes receiving the floor-control request through a push-to-talk (PTT) device.
 - 3. The method of claim 1, wherein the transmitting includes transmitting the floor-control request on a reverse access channel (R-ACH) of the wireless network.
 - 4. The method of claim 1, wherein the transmitting includes transmitting the floor-control request on a reverse enhanced access channel (R-EACH) of the wireless network.
 - 5. The method of claim 1, further including re-establishing traffic channel for the communication device.
 - 6. The method of claim 1, further including re-establishing traffic channel for the communication device simultaneously with the transmitting the floor-control request.
- [c7] 7. The method of claim 1, further including renegotiating a radio link protocol (RLP) for the communication device.
- [c8] 8. The method of claim 1, further including renegotiating a radio link protocol (RLP) for the communication device simultaneously with the transmitting the floor-control request.
- [c9] 9. The method of claim 1, wherein the transmitting includes transmitting the floor-control request in short data burst (SDB) form.



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- [c10] 10. The method of claim 1, further including receiving a response to the floor-control request on a forward common channel of the wireless network.
- [c11] 11. The method of claim 10, wherein the receiving the response includes receiving the response on a forward paging channel (F-PCH) of the wireless network.
- [c12] 12. The method of claim 10, wherein the receiving the response includes receiving the response on a forward common control channel (F-CCCH) of the wireless network.
- [c13] 13. The method of claim 10, wherein the receiving the response in short data burst (SDB) form.
 - 14. In a communication device, a computer-readable medium embodying a method for reducing latency in a group communication network, the method comprising:

receiving a floor-control request from a user of the communication device who wishes to initiate a group call; and

transmitting the floor-control request on a reverse common channel of a wireless network to a controller.

- 15. The computer-readable medium of claim 14, wherein the receiving includes receiving the floor-control request through a push-to-talk (PTT) device.
- [c16] 16. The computer-readable medium of claim 14, wherein the transmitting includes transmitting the floor-control request on a reverse access channel (R-ACH) of the wireless network.
- [c17] 17. The computer-readable medium of claim 14, wherein the transmitting includes transmitting the floor-control request on a reverse enhanced access channel (R-EACH) of the wireless network.
- [c18] 18. The computer-readable medium of claim 14, wherein the method further includes re-establishing traffic channel for the communication device.

comprising:

wishes to initiate a group call; and

19. The computer-readable medium of claim 14, wherein the method further includes [c19] re-establishing traffic channel for the communication device simultaneously with the transmitting the floor-control request. 20. The computer-readable medium of claim 14, wherein the method further includes [c20]renegotiating a radio link protocol (RLP) for the communication device. 21. The computer-readable medium of claim 14, wherein the method further includes [c21] renegotiating a radio link protocol (RLP) for the communication device simultaneously with the transmitting the floor-control request. 22. [¢22] The computer-readable medium of claim 14, wherein the transmitting includes transmitting the floor-control request in short data burst (SDB) form. 23. The computer-readable medium of claim 14, wherein the method further includes receiving a response to the floor-control request on a forward common channel of the wireless network. The computer-readable medium of claim 23, wherein the receiving the response 24. includes receiving the response on a forward paging channel (F-PCH) of the wireless network. 25. [c25] The computer-readable medium of claim 23, wherein the receiving the response includes receiving the response on a forward common control channel (F-CCCH) of the wireless network. [c26]The computer-readable medium of claim 23, wherein the receiving the response 26. includes receiving the response in short data burst (SDB) form. [c27] 27. A communication device for reducing latency in a group communication network,

means for receiving a floor-control request from a user of the communication device who



means for transmitting the floor-control request on a reverse common channel of a wireless network to a controller.

- 28. The communication device of claim 27, wherein the means for receiving includes [c28] a push-to-talk (PTT) device.
- [c29] 29. The communication device of claim 27, wherein the means for transmitting includes means for transmitting the floor-control request on a reverse access channel (R-ACH) of the wireless network.
- 30. The communication device of claim 27, wherein the means for transmitting [c30] includes means for transmitting the floor-control request on a reverse enhanced access channel 4 (R-EACH) of the wireless network.
 - 31. The communication device of claim 27, further including means for reestablishing traffic channel for the communication device.
 - 32. The communication device of claim 27, further including means for reestablishing traffic charnel for the communication device simultaneously with the transmitting the floor-control request.
- 33. [c33] The communication device of claim 27, further including means for renegotiating a radio link protocol (RLP) for the communication device.
- [c34] 34. The communication device of claim 27, further including means for renegotiating a radio link protocol (RLP) for the communication device simultaneously with the transmitting the floor-control request.
- [c35] 35. The communication device of claim 27, wherein the means for transmitting includes means for transmitting the floor-control request in short data burst (SDB) form.
- 36. The communication device of claim 27, further including means for receiving a [c36] response to the floor-control request on a forward common channel of the wireless network.

- [c37] 37. The communication device of claim 36, wherein the means for receiving the response includes means for receiving the response on a forward paging channel (F-PCH) of the wireless network.
- [c38] 38. The communication device of claim 36, wherein the means for receiving the response includes means for receiving the response on a forward common control channel (F-CCCH) of the wireless network.
- [c39] 39. The communication device of claim 36, wherein the means for receiving the response includes means for receiving the response in short data burst (SDB) form.
 - 40. A dommunication device for reducing latency in a group communication network, the communication device comprising:

a receiver;

a transmitter; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of:

receiving a floor-control request from a user of the communication device who wishes to initiate a group call; and

transmitting the floor-control request on a reverse common channel of a wireless network to a controller.

- [c41] 41. The communication device of claim 40, wherein the receiving includes receiving the floor-control request through a push-to-talk (PTT) device.
- [c42] 42. The communication device of claim 40, wherein the transmitting includes transmitting the floor-control request on a reverse access channel (R-ACH) of the wireless network.
- [c43] 43. The communication device of claim 40, wherein the transmitting includes transmitting the floor-control request on a reverse enhanced access channel (R-EACH) of the wireless network.

- 44. The communication device of claim 40, the processor further being capable of re-[c44] establishing traffic channel for the communication device.
- 45. The communication device of claim 40, the processor further being capable of re-[c45] establishing traffic channel for the communication device simultaneously with the transmitting the floor-control request.
- [c46] 46. The communication device of claim 40, the processor further being capable of renegotiating a radio link protocol (RLP) for the communication device.
- [c47] 47. The communication device of claim 40, the processor further being capable of renegotiating a radio link protocol (RLP) for the communication device simultaneously with the transmitting the floor-control request.
 - 48. The communication device of claim 40, wherein the transmitting includes transmitting the floor-control request in short data burst (SDB) form.
 - 49. The communication device of claim 40, the processor further being capable of receiving a response to the floor-control request on a forward common channel of the wireless network.
- 50. [c50] The communication device of claim 49, wherein the receiving the response includes receiving the response on a forward paging channel (F-PCH) of the wireless network.
- 51. [c51] The communication device of claim 49, wherein the receiving the response includes receiving the response on a forward common control channel (F-CCCH) of the wireless network.
- [c52] 52. The communication device of claim 49, wherein the receiving the response includes receiving the response in short data burst (SDB) form.

